


one of the coil and the magnetic body is provided on the connecting member, the other of the coil and the magnetic body is fixed to a fixing portion, and the connecting member is moved in right and left directions when the coil and the magnetic body come close to and go away from each other;

the connecting member takes at least two steering positions by controlling a current to be carried to the coil with a coil current carrying unit;

the coil is an air core coil; and

the magnetic body has a diameter corresponding to a diameter of the coil.

5. (ONCE AMENDED) A steering device for toy, comprising:



right and left turning members to turn right and left steering wheels in clockwise and counterclockwise directions;

a connecting member to connect the right and left turning members with each other;

an air core coil to apply an electromagnetic force to move the connecting member in right and left directions to turn the right and left steering wheels;

a magnetic body to attract/repel the air core coil when a current is supplied to the air core coil;

a current carrying control unit to control an operation of the air core coil; and

a torsion spring to keep the connecting member at a neutral position when the current is not carried to the coil,

wherein the magnetic body has a diameter corresponding to a diameter of the coil.

6. (ONCE AMENDED) A running toy comprising:

a steering device for toy, comprising:

right and left turning members to turn right and left steering wheels in clockwise and counterclockwise directions;

a connecting member to connect the right and left turning members with each other;

a coil and a magnetic body to move the connecting member in right and left directions by carrying a current to the coil; and

a torsion spring to keep the connecting member at a neutral position when the current is not carried in the coil,

wherein the right and left turning members are turned by moving the connecting member in right and left directions to change each direction of the steering wheels;

wherein

one of the coil and the magnetic body is provided on the connecting member, the other of the coil and the magnetic body is fixed to a fixing portion;

the connecting member is moved in right and left directions when the coil and the magnetic body come close to and go away from each other;

the connecting member takes at least two steering positions by controlling a current to be carried to the coil with a coil current carrying control unit;

the coil is an air core coil; and

the magnetic body has a diameter corresponding to a diameter of the coil.

10. (ONCE AMENDED) A running toy comprising:

a steering device comprising:

right and left turning members to turn right and left steering wheels in clockwise and counterclockwise directions;

a connecting member to connect the right and left turning members with each other;

an air core coil to apply an electromagnetic force to move the connecting member in right and left directions to turn the right and left steering wheels;

a magnetic body to attract/repel the air core coil when a current is supplied to the air core coil;

a current carrying control unit to control a current carried to the air core coil, so that the connecting member takes at least two steering positions;

a torsion spring to keep the connecting member at a neutral position when the current is not carried to the coil; and

a suspension device to press the right and left turning members which are movable in upper and lower directions in a predetermined range, so that the right and left steering wheels are in contact with a ground,

wherein the magnetic body has a diameter corresponding to a diameter of the coil.

11. (NEW) The steering device as claimed in claim 1, further comprising:

a trim to adjust the neutral position of the connecting member by precisely adjusting a position of the torsion spring,

wherein the trim comprises

an eccentric cam to hang an end position of the torsion spring; and

a lever to rotate the eccentric cam, wherein the eccentric cam is rotated and the position of the torsion spring and the neutral position of the connecting member are precisely adjusted by operating the lever.

12. (NEW) The running toy as claimed in claim 6, further comprising:

a trim to adjust the natural position of the connecting member by precisely adjusting a position of the torsion spring,

wherein the trim comprises

an eccentric cam to hang an end position of the torsion spring; and

a lever to rotate the eccentric cam, wherein the eccentric cam is rotated and the position of the torsion spring and the neutral position of the connecting member are precisely adjusted by operating the lever.

13. (NEW) A steering device for a toy, comprising:

right and left turning members to turn right and left steering wheels;

a connecting member to connect and turn the right and left turning members to take at least two steering positions in correspondence with coil current from a coil current carrying unit;

an air core coil and a magnetic body having substantially same diameters, one of the air core coil and the magnetic body on the connecting member and the other fixed to a fixing portion, to use coil current to move the connecting member in right and left directions as the coil and magnetic body approach/depart from each other; and

a torsion spring to hold the connecting member in neutral when no coil current is applied.

14. (NEW) A steering device for a toy, comprising:

right and left turning members to turn right and left steering wheels;

a tying member to connect the right and left turning members;

an air core coil to, upon receiving current, apply an electromagnetic force to move the tying member in right and left directions, to turn the right and left steering wheels;

a magnetic body having substantially a diameter of the air core coil, to attract/repel the air core coil;

a control unit to control current to the air core coil; and

a torsion spring to keep the tying member in neutral when the coil current is halted.

15. (NEW) A running toy comprising:

a steering device for the toy, comprising:

right and left turning units to turn right and left steering wheels;

a tying member, to tie and move the right and left turning units into at least two steering positions in correspondence with coil current from a coil current control unit;

an air core coil and a magnetic body, each having a substantially same diameter, one on the tying member and the other fixed to a fixing portion, to move the tying member in right and left directions when a current is applied to the air core coil, moving the air core coil toward/away from the magnetic body; and

a torsion spring to keep the tying member in neutral when the current is halted.

16. (NEW) A running toy comprising:

a steering device comprising:

right and left turning units to turn right and left steering wheels;

a tying member to tie and move the right and left turning units into at least two steering positions;

an air core coil to apply an electromagnetic force to move the tying member in right and left directions to turn the right and left steering wheels;

a magnetic body, having a diameter substantially equal to a diameter of the air core coil, to attract/repel the air core coil due to the electromagnetic force;

a control unit to control a current to the air core coil;

a torsion spring to keep the tying member in neutral when the current is halted;

and

a suspension device to press the right and left turning units which are movable in upper and lower directions in a predetermined range, to force the right and left steering wheels to contact a ground.